Advancements in the Surgical Treatment of Gastric Cancer

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Introduction
Our Surgical Team

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Epidemiology
Survival

Diagram showing the survival rate per 100,000 persons from 1992 to 2017. The graph indicates a decrease in death rate and an increase in rate of new cases over time.
Survival

Percent of Cases by Stage

- Localized (28%)
  Confined to Primary Site
- Regional (26%)
  Spread to Regional Lymph Nodes
- Distant (36%)
  Cancer Has Metastasized
- Unknown (10%)
  Unstaged

5-Year Relative Survival

- Localized: 69.5%
- Regional: 32.0%
- Distant: 5.5%
- Unknown: 23.4%
Stomach Anatomy
Surgical Reconstruction Anatomy
Minimally-Invasive Surgery

Scar from open surgery

Scars from laparoscopic surgery
Minimally-Invasive Surgery

Potential Benefits

- Smaller scars
- Less blood loss during surgery
- Reduced pain after surgery
- Shorter hospital stay/faster recovery
- Decreased inflammation and improved cancer outcomes
- Decreased risk of hernia formation
Robotic Surgery
Metastatic Gastric Cancer

-Site of spread: Distant (lung, liver) vs. Peritoneum
HIPEC

Heated Intraperitoneal Chemotherapy

-Delivery of chemotherapy directly to the abdomen
Minimally-Invasive HIPEC

Heated Intraperitoneal Chemotherapy

-Delivery of chemotherapy directly to the abdomen in a minimally-invasive fashion
Future of Gastric Cancer Treatment

- Earlier detection, improved screening
- Personalized, targeted, precision treatment
Thank You

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